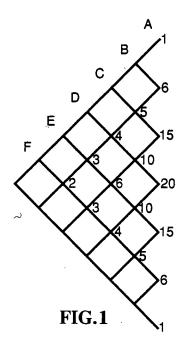
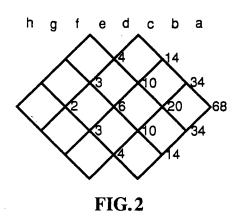
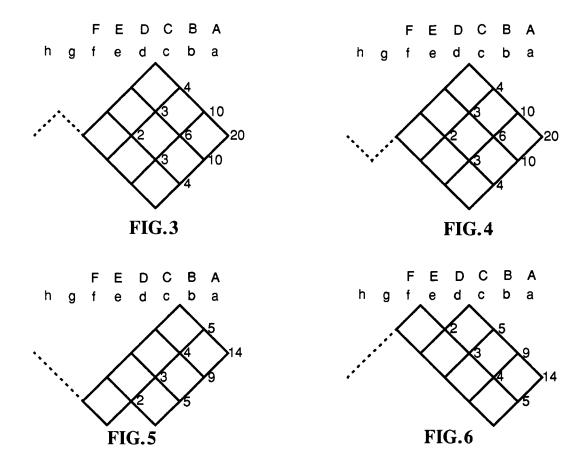
1/12 YOR920030631US1 WIDMER (TAD)







48 Encoded Vectors with no Changes

	FIG. 3		FIG. 5		FIG. 6
Name	hgfedcba	Name	hgfedcba	Name	hgfedcba
D207	10000111	D027	00010111	D303	11000011
D213	10001011	D033	00011011	D305	11000101
D215	10001101	D035	00011101	D306	11000110
D216	10001110	D036	00011110	D311	11001001
D223	10010011	D047	00100111	D312	11001010
D225	10010101	D053	00101011	D314	11001100
D226	10010110	D055	00101101	D321	11010001
D231	10011001	D056	00101110	D322	11010010
D232	10011010	D063	00110011	D324	11010100
D234	10011100	D065	00110101	D330	11011000
D243	10100011	D066	00110110	D341	11100001
D245	10100101	D071	00111001	D342	11100010
D246	10100110	D072	00111010	D344	11100100
D251	10101001	D074	00111100	D350	11101000
D252	10101010				
D254	10101100				
D261	10110001				
D262	10110010				
D264	10110100				
D270	10111000				

FIG. 7

a-bit Encoding

Name	K FEDCBA	Coding Label	a	Name	K FEDCBA	Coding Label	a
D00	x 00000 0	A' •B'•C'•D'•E'•F'	1	D77	x 11111 1	A·B·C·D·E·F	0
D04	x 00 01 0 0	A' •B'•E'•F'•C≠D	1	D73	x 111011	Ā•B•E•F•C≠D	0
D10	x 00 10 0 0	A '•B'•E'•F'•C≠D	1	D67	x 11011T	A •B•E•F•C≠D	0
D20	x 01 000 0	A' •B'•C'•D'•E≠F	1	D57	x 101 11	Ā·B·C•D•E≠F	0
D40	x 10 000 0	Ā' •B'•C'•D'•E≠F	1	D37	x 011 11	A •B•C•D•E≠F	0

FIG. 10A

20 Encoded Vectors of FIG. 4 with individual Bit Changes

Name	K FEDCBA	Name hgfedcba	Name K FEDCBA	Name hgfedcba
D00	0 000000	D131 010 <u>11</u> 00 <u>1</u>	D77 0 111111	D146 011 <u>00</u> 11 <u>0</u>
D01	0 000001	D161 01 <u>11</u> 0001	D76 0 111110	D116 01 <u>00</u> 1110
D02	0 000010	D162 01 <u>11</u> 0010	D75 0 111101	D115 01 00 1101
D04	0 000100	D145 01 <u>1</u> 0010 <u>1</u>	D73 0 111011	D132 01 0 1101 0
D10	0 001000	D151 01 <u>1</u> 0100 <u>1</u>	D67 0 110111	D126 01 0 1011 0
D20	0 010000	D123 010100 <u>11</u>	D57 0 101111	D154 011011 <u>00</u>
D40	0 100000	D143 011000 <u>11</u>	D37 0 011111	D134 010111 <u>00</u>
D60	0 110000	D164 01110 <u>1</u> 00	D17 0 001111	D113 01001 <u>0</u> 11
K07	1 000111	K107 01000111	K70 1 111000	K170 01111000
K25	1 010101	K125 01010101	K52 1 101010	K152 01101010

FIG. 8

b-bit Encoding

Name	K FEDCBA	Coding Label	b	Name	K FEDCBA	Coding Label	b
D20	x 01 0000	A'• B' •C'•D'•E≠F	1	D57	x 10 1111	A• B •C•D•E≠F	0
D40	x 10 0000	A'• B' •C'•D'•E≠F	1	D37	x 01 111 1	A•B•C•D•E≠F	0

FIG. 10B

c-bit Encoding

Name	K FEDCBA	Coding Label	С	Name	K FEDCBA	Coding Label	С
D60	x 110 0 00	A'•B'• D'•E•F	1	D17	x 001 1 11	A•B•D•E'•F'	0

FIG. 10C

d-bit Encoding

Name	K FEDCBA	Coding Label	d	Name	K FEDCBA	Coding Label	d
D00	x 00 0 000	A'•B'•C'• D' •E'•F'	1	D77	x 11 1 111	A•B•C• D •E•F	0

FIG. 10D

6B/8B Code

Name	K FEDCBA	Name	hgfedcba	Name	K FEDCBA	Name	hgfedcba
D00	0 000000	D131	010 <u>11</u> 00 <u>1</u>	D42	0 100010	D342	11100010
D01	0 000001	D161	01 <u>11</u> 0001	D43	0 100011	D243	10100011
D02	0 000010	D162	01 <u>11</u> 0010	D44	0 100100	D344	11100100
D03	0 000011	D303	11000011	D45	0 100101	D245	10100101
D04	0 000100	D145	01 <u>1</u> 0010 <u>1</u>	D46	0 100110	D246	10100110
D05	0 000101	D305	11000101	D47	0 100111	D047	00100111
D06	0 000110	D306	11000110	D50	0 101000	D350	11101000
D07	0 000111	D207	10000111	D51	0 101001	D251	10101001
D10	0 001000	D151	01 <u>1</u> 0100 <u>1</u>	D52	0 101010	D252	10101010
D11	0 001001	D311	11001001	D53	0 101011	D053	00101011
D12	0 001010	D312	11001010	D54	0 101100	D254	10101100
D13	0 001011	D213	10001011	D55	0 101101	D055	00101101
D14	0 001100	D314	11001100	D56	0 101110	D056	00101110
D15	0 001101	D215	10001101	D57	0 101111	D154	011011 00
D16	0 001110	D216	10001110	D60	0 110000	D164	01110 <u>1</u> 00
D17	0 001111	D113	01001 <u>0</u> 11	D61	0 110001	D261	10110001
D20	0 010000	D123	010100 <u>11</u>	D62	0 110010	D262	10110010
D21	0 010001	D321	11010001	D63	0 110011	D063	00110011
D22	0 010010	D322	11010010	D64	0 110100	D264	10110100
D23	0 010011	D223	10010011	D65	0 110101	D065	00110101
D24	0 010100	D324	11010100	D66	0 110110	D066	00110110
D25	0 010101	D225	10010101	D67	0 110111	D126	01 <u>0</u> 1011 <u>0</u>
D26	0 010110	D226	10010110	D70	0 111000	D270	10111000
D27	0 010111	D027	00010111	D71	0 111001	D071	00111001
D30	0 011000	D330	11011000	D72	0 111010	D072	00111010
D31	0 011001	D231	10011001	D73	0 111011	D132	01 <u>0</u> 1101 <u>0</u>
D32	0 011010	D232	10011010	D74	0 111100	D074	00111100
D33	0 011011	D033	00011011	D75	0 111101	D115	01 <u>00</u> 1101
D34	0 011100	D234	10011100	D76	0 111110	D116	01 <u>00</u> 1110
D35	0 011101	D035	00011101	D77	0 111111	D146	011 <u>00</u> 11 <u>0</u>
D36	0 011110	D036	00011110	K07	1 000111	K107	01000111
D37	0 011111	D134	010111 <u>00</u>	K25	1 010101	K125	01010101
D40	0 100000	D143	011000 <u>11</u>	K52	1 101010	K152	01101010
D41	0 100001	D341	11100001	K70	1 111000	K170	01111000

FIG. 9

e-bit Encoding

Name	K FEDCBA	Coding Label	е	Name	K FEDCBA	Coding Label	е
D00	x 0 0 0000	A'•B'•C'•D'• E' •F'	1	D77	x 111111	A•B•C•D• Ē •F	0
D01	x 0000 01	C'•D'• E' •F'•A≠B	1	D76	x 1111 10	C•D• E •F•A≠B	0
D02	x 0000 10	C'•D'• E '•F'•A≠B	1	D75	x 1111 01	C•D• E •F•A≠B	0

FIG. 10E

f-bit Encoding

Name	K FEDCBA	Coding Label	f	Name	K FEDCBA	Coding Label	f
D01	x 0000 01	C'•D'•E'• F' •A≠B	1	D76	x 1 11110	C•D•E• F •A≠B	0
D02	x 0000 10	C'•D'•E'• F' •A≠B	1	D75	x 1 11101	C•D•E• F •A≠B	0
D04	x 00 01 00	A'•B'•E'• F' •C≠D	1	D73	x 1 11011	A•B•E• F •C≠D	0
D10	x 0 010 00	A'•B'•E'• F' •C≠D	1	D67	x 1 10111	A•B•E• F •C≠D	0

FIG. 10F

A-bit Decoding

Name	hgfedcba	Coding Label	ΑK	Name	hgfedcba	Coding Label	AK
D131	0101100 ī	a • b' • c' • d • e • f' • g • h'	00	D146	0110011 0	a' •b•c•d'•e'•f•g•h'	10
D145	0110 0101	a • b'•e'•f•g•h'•c≠d	00	D132	0101 10 10	a' •b•e•f'•g•h'•c≠d	10
D151	0110 10 0 1	a • b'•e'•f•g•h'•c≠d	00	D126	0101 01 10	a'•b•e•f'•g•h'•c≠d	10
D123	01 01 001 1	a • b•c'•d'•g•h'•e≠f	00	D154	01 10 110 0	a '•b'•c•d•g•h'•e≠f	10
D143	01 10 001 1	a•b•c'•d'•g•h'•e≠f	00	D134	01 01 110 0	a' •b'•c•d•g•h'•e≠f	10

FIG. 12A

B-bit Decoding

Name	hgfedcba	Coding Label	вк	Name	hgfedcba	Coding Label	ВК
D123	<u>0</u> 101 00 11	a• b •c'•d'•g•h'•e≠f	00	D154	01 10 1100	a'• b' •c•d•g•h'•e≠f	10
D143	01 10 00 11	a •b •c'•d'•g•h'•e≠f	00	D134	01 0111 0 0	a'• b' •c•d•g•h'•e≠f	10

FIG. 12B

g-bit Encoding

Name	K FEDCBA	Coding Label	g	Name	K FEDCBA	Coding Label	g
D00	x 000 000			*D00	× 000 000	(A'+B'+C')•D'•E'•F'	
D10	x 001 000	A'•B'•C'•(D'+E'+F')	1		x 000 001	(A'+B'+C')•D'•E'•F'	
D20	x 010 000	A'•B'•C'•(D'+E'+F')	1	D02	L	(A'+B'+C')•D'•E'•F'	_
D30	x 011 000	A'•B'•C'•(D'+E'+F')	1	D03	x 000 011	(A'+B'+C')•D'•E'•F'	1
D40	x 100 000	A'•B'•C'•(D'+E'+F')	1	D04	x 000 100	(A'+B'+C')•D'•E'•F'	1
D50	x 101 000	A'•B'•C'•(D'+E'+F')	1	D05	x 000 101	(A'+B'+C')•D'•E'•F'	1
D60	x 110 000	A'•B'•C'•(D'+E'+F')	1	D06	x 000 110	(A'+B'+C')•D'•E'•F'	1
D11	x 00 1001	(A'•B'+A'•C'+B'•C')•E'•F'	1	D17	x 001111	A•B•C•D	1
D12	x 00 1010	(A'•B'+A'•C'+B'•C')•E'•F'	1	D37	x 01 1111	A•B•C•D	1
D14	x 00 1100	(A'•B'+A'•C'+B'•C')•E'•F'	1	D57	x 10 1111	A•B•C•D	1
D21	x 0 1 0 001	(A'•B'+A'•C'+B'•C')•D'•F'	1	D77	x 11 1111	A•B•C•D	1
D22	x 0 1 0 010	(A'•B'+A'•C'+B'•C')•D'•F'	1	D75	x 1111 01	C•D•E•F•A≠B	1
D24	x 0 1 0 100	(A'•B'+A'•C'+B'•C')•D'•F'	1	D76	x 1111 10	C•D•E•F•A≠B	1
D41	x 1 00 001	(A'•B'+A'•C'+B'•C')•D'•E'	1	D67	x 110111	A•B•E•F•C≠D	1
D42	x 1 00 010	(A'•B'+A'•C'+B'•C')•D'•E'	1	D73	x 111011	A•B•E•F•C≠D	1
D44	x 1 00 100	(A'•B'+A'•C'+B'•C')•D'•E'	1	K07	1 000111	K	1
*D00	x 000000		1	K25	1 010101	K	1
*D01	x 000001		1	K52	1 101010	K	1
	x 000010		1	K70	1 111000	K	1
	x 000100		1				
	x 001000		1				
	x 010000		1				
*D40	x 100000		1				

FIG. 10G

C-bit Decoding

						Coding Label	
D164	01110 T 00	a'•b'•d'•e•f•g•h'	00	D113	01001 0 11	a•b•d•e'•f'•g•h'	10

FIG. 12C

h-bit Encoding

Name	K FEDCBA	Coding Label	h	Name	K FEDCBA	Coding Label	h
D17	x 001 111	A•B•C•(D+E+F)	0	D71	x 111 001	(A+B+C)•D•E•F	0
D27	x 010 111	A•B•C•(D+E+F)	0	D72	x 111010	(A+B+C)•D•E•F	이
D37	x 011 111	A•B•C•(D+E+F)	0	D73	x 111011	(A+B+C)•D•E•F	0
		A•B•C•(D+E+F)	0	D74	x 111 100	<u>'</u>	0
D57		A•B•C•(D+E+F)	0	D75			0
D67		A•B•C•(D+E+F)	0			(A+B+C)•D•E•F	0
D77		A•B•C•(D+E+F)				(A+B+C)•D•E•F	0
		(A•B+A•C+B•C)•D•E				A'•B'•C'•D'	0
D35		(A•B+A•C+B•C)•D•E		D20	x 01 0000		0
D36		(A•B+A•C+B•C)•D•E		D40	x 10 0000	A'•B'•C'•D'	0
D53		(A•B+A•C+B•C)•D•F	0	D60	x 110000	A'•B'•C'•D'	0
D55		(A•B+A•C+B•C)•D•F	0	D01	x 0000 01	C'•D'•E'•F'•A≠B	0
D56	x 101110	(A•B+A•C+B•C)•D•F	0	D02	x 0000 10	C'•D'•E'•F'•A≠B	0
D63	x 11 0011	(A•B+A•C+B•C)•E•F	0	D04	x 00 01 00	A'•B'•E'•F'•C≠D	0
D65	x 11 0101	(A•B+A•C+B•C)•E•F	0	D10	x 00 10 00	A'•B'•E'•F'•C≠D	0
D66	x 11 0110	(A•B+A•C+B•C)•E•F	0	K07	1 000111	K	0
*D37	x 011111		0	K25	1 010101	K	0
*D57	x 101111		0	K52	1 101010	K	0
*D67	x 110111			K70	1 111000	K	0
*D73	x 111011						
*D75	x 111101						
	x 111110						
*D77	x 111111						

FIG. 10H

D-bit Decoding

Name	hgfedcba	Coding Label	DK	Name	hgfedcba	Coding Label	DK
D131	01017001	a•b'•c'• d •e•f'•g•h'	00	D146	0110 0 110	a'•b•c• d' •e'•f•g•h'	10

E-bit Decoding

Name	hgfedcba	Coding Label	ΕK	Name	hgfedcba	Coding Label	ΕK
D131	010 1 1001	a•b'•c'•d• e •f'•g•h'	00	D146	011 0 0110	a'•b•c•d'• <mark>e'</mark> •f•g•h'	10
D161	011100 01	c'•d'• e ∙f•g•h'•a≠b	00	D116	010011 10	c•d• e ′•f'•g•h'•a≠b	10
D162	011100 10	c'•d'• e •f•g•h'•a≠b	00	D115	010011 01	c•d• e '•f'•g•h'•a≠b	10

FIG. 12E

F-bit Decoding

Name	hgfedcba	Coding Label	FK	Name	hgfedcba	Coding Label	FK
D161	011100 01	c'•d'•e• f •g•h'•a≠b	00	D116	010011 10	c•d•e'• f' •g•h'•a≠b	10
D162	011100 10	c'•d'•e• f •g•h'•a≠b	00	D115	010011 01	c•d•e'• f' •g•h'•a≠b	10
D145	0110 01 01	a•b'•e'• f •g•h'•c≠d	00	D132	010 11010	a'•b•e• f' •g•h'•c≠d	10
D151	01 1 010 01	a•b'•e'• f •g•h'•c≠d	00	D126	010 10110	a'•b•e• f' •g•h'•c≠d	10

FIG. 12F

K-bit Decoding

Name	hgfedcba	Coding Label	K	Name	hgfedcba	Coding Label
K107	01000111	a•c•d'•f'•g•h'•b≠e	1	K170	01111000	a'•c'•d•f•g•h'•b≠e 1
K125	01010101	a•c•d'•f'•g•h'•b≠e	1	K152	011010 1 0	a'•c'•d•f•g•h'•b≠e 1

FIG. 12G

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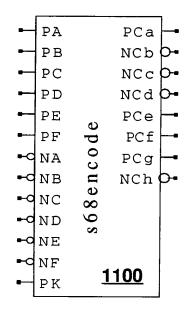


FIG. 11A

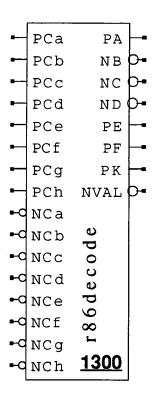


FIG. 13A

1100

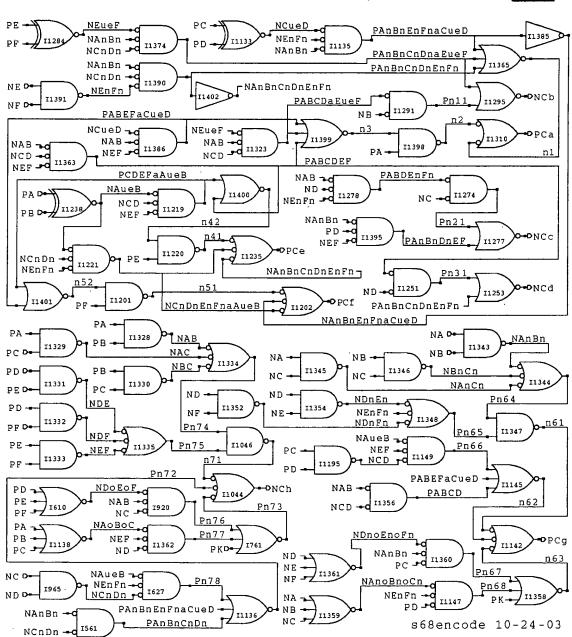


FIG. 11B

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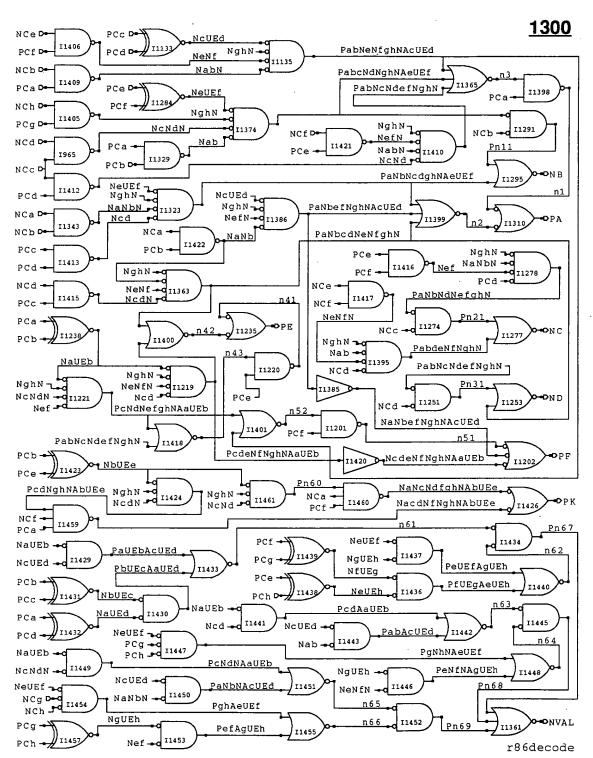


FIG. 13B